

## SEARCH REQUEST FORM

Requestor's

Name:

Kaufman - Rm 10E07

Serial

Number:

08/8-78/168

Date:

6/12/98

Phone:

305-5791

Art Unit:

1646

## Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

Please search SEQ ID NO:1-4

- Fragment of SEQ ID NO:1 from amino acid 1-161, ~~which is a fragment of the amino acid sequence of the protein encoded by the gene of interest~~

in commercial, issued &amp; pending patents databases.

Please put results on disk.

Thanks,  
Claire

1998 JUN 12 PM 4:59

## STAFF USE ONLY

Date completed: 6-22-98

Searcher:

MACK

Terminal time:

12

Elapsed time:

1:25

CPU time:

Total time:

15

Number of Searches:

1

Number of Databases:

1

## Search Site

☐ STIC☒ CM-1☐ Pre-S

## Type of Search

☐ N.A. Sequence☒ A.A. Sequence☐ Structure☐ Bibliographic

## Vendors

☒ IG Suite☐ STN☐ Dialog☐ APS☐ Geninfo☐ SDC☐ DARC/Questel☐ Other

RESULT 1: Comparison to SEQ ID NO:4 (Qy)  
 LOCUS AF012536 1180 bp mRNA PRI 21-AUG-1997  
 DEFINITION Homo sapiens decoy receptor 1 (DcR1) mRNA, complete cds.  
 ACCESSION AF012536  
 NID g2338421  
 KEYWORDS .  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;  
 Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae;  
 Homo.  
 REFERENCE 1 (bases 1 to 1180)  
 AUTHORS Sheridan,J.P., Marsters,S.A., Pitti,R.M., Gurney,A., Skubatch,M.,  
 Baldwin,D., Ramakrishnan,L., Gray,C.L., Baker,K., Wood,W.I.,  
 Goddard,A.D., Godowski,P. and Ashkenazi,A.  
 TITLE Control of TRAIL-induced apoptosis by a family of signaling and  
 decoy receptors  
 JOURNAL Science 277 (5327), 818-821 (1997) 0 *ent Aug. 8*  
 MEDLINE 97390509  
 REFERENCE 2 (bases 1 to 1180)  
 AUTHORS Sheridan,J.P., Marsters,S.A., Pitti,R.M., Gurney,A., Baldwin,D.,  
 Ramakrishnan,L., Gray,C.L., Baker,K., Wood,W.I., Goddard,A.D.,  
 Godowski,P. and Ashkenazi,A.  
 TITLE Direct Submission  
 JOURNAL Submitted (06-JUL-1997) Molecular Oncology, Genentech, 1 DNA Way,  
 South San Francisco, CA 94080, USA  
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 source 1. .1180  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 gene 1. .1180  
 /gene="DcR1"  
 CDS 193. .972  
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 /note="tumor necrosis factor receptor family member;  
 inhibits apoptosis induction by TRAIL/Apo2L"  
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 /db\_xref="PID:g2338422"  
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 MTRDTCQCKEGTFRNENSPMCRKCSRCPGSEVQVSNCTSWDDIQVVEEFGANATVE  
 TPAAEETMNTSPGTPAPAAEETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPG  
 TPAPAAEETMTTSPGTPASSHYLSCTIVGIIVLIVLLIVFV"  
 BASE COUNT 338 a 326 c 298 g 218 t  
 ORIGIN

Query Match 100.0%; Score 1180; DB 22; Length 1180;  
 Best Local Similarity 100.0%; Pred. No. 0.00e+00;  
 Matches 1180; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 GCTGTGGGAACCTCTCCACGCGCACGAACTCAGCCAACGATTCTGATAGATTTTGGGA 60  
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 Qy 1 GCTGTGGGAACCTCTCCACGCGCACGAACTCAGCCAACGATTCTGATAGATTTTGGGA 60

[illegible]

[illegible]

RESULT 3: Comparison to SEQ ID NO:4 (Qy)  
 LOCUS AF016267 1388 bp mRNA PRI 16-OCT-1997  
 DEFINITION Homo sapiens TRAIL receptor 3 mRNA, complete cds.  
 ACCESSION AF016267  
 NID g2529564  
 KEYWORDS .  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryotae; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;  
 Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 1388)  
 AUTHORS Schneider,P., Bodmer,J.-L., Thome,M., Holler,N., Hofmann,K. and  
 Tschopp,J.  
 TITLE Characterization of two receptors binding TRAIL  
 JOURNAL FEBS Lett. (1997) In press  
 REFERENCE 2 (bases 1 to 1388)  
 AUTHORS Schneider,P., Bodmer,J.-L., Thome,M., Holler,N., Hofmann,K. and  
 Tschopp,J.  
 TITLE Direct Submission  
 JOURNAL Submitted (28-JUL-1997) Institute of Biochemistry, University of  
 Lausanne, Chemin des Boveresses 155, Epalinges, VD 1066,  
 Switzerland  
 FEATURES Location/Qualifiers  
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 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /dev\_stage="fetal"  
 /tissue\_type="liver and spleen"  
 CDS 188. .967  
 /function="binds cytotoxic ligand TRAIL"  
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 TPAPAAEETMTTSPGTPASSHYLSCTIVGIIVLIVLLIVFV"  
 BASE COUNT 331 a 415 c 368 g 274 t  
 ORIGIN

Query Match 92.0%; Score 1086; DB 22; Length 1388;  
 Best Local Similarity 99.7%; Pred. No. 0.00e+00;  
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Db 13 CACGCGCACGAACCTCAGCCAACGATTTCTGATAGATTTTGGGAGTTTGACCAGAGATGC 72  
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 Qy 17 CACGCGCACGAACCTCAGCCAACGATTTCTGATAGATTTTGGGAGTTTGACCAGAGATGC 76  
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 Db 73 AAGGGGTGAAGGAGCGCTTCTACCGTTAGG-AACTCTGGGGACAGAGCGCCCCGGCCGC 131  
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 Qy 77 AAGGGGTGAAGGAGCGCTTCTACCGTTAGGGAACCTCTGGGGACAGAGCGCCCCGGCCGC 136  
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 Db 132 CTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACCATACCATGG 191

Qy	137	CTGATGGCCGAGGCAGGGTGC	196
Db	192	CCCGGATCCCCAAGACCCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCTCTGCTGCCAGTCC	251
Qy	197	CCCGGATCCCCAAGACCCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCTCTGCTGCCAGTCC	256
Db	252	TAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	311
Qy	257	TAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	316
Db	312	AGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCAGAAC	371
Qy	317	AGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCAGAAC	376
Db	372	ATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAACAATG	431
Qy	377	ATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAACAATG	436
Db	432	AACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCTTGCA	491
Qy	437	AACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCTTGCA	496
Db	492	CCATGACCAGAGACACAGTGTGTCTAGTGTAAAGAAGGCACCTTCCGGAATGTTAACTCCC	551
Qy	497	CCATGACCAGAGACACAGTGTGTCTAGTGTAAAGAAGGCACCTTCCGGAATGAAAACCTCCC	556
Db	552	CAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAATTGTA	611
Qy	557	CAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAATTGTA	616
Db	612	CGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAAACCC	671
Qy	617	CGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAAACCC	676
Db	672	CAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGA	731
Qy	677	CAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGA	736
Db	732	CAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCC	791
Qy	737	CAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCC	796
Db	792	CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCC	851
Qy	797	CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCC	856
Db	852	CAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTACCTCT	911
Qy	857	CAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTACCTCT	916
Db	912	CATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGAAAGA	971
Qy	917	CATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGAAAGA	976

[illegible]

RESULT 1: Comparison to SEQ ID NO:2 (Qy)  
 LOCUS AF012536 1180 bp mRNA PRI 21-AUG-1997  
 DEFINITION Homo sapiens decoy receptor 1 (DcR1) mRNA, complete cds.  
 ACCESSION AF012536  
 NID g2338421  
 KEYWORDS .  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;  
 Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae;  
 Homo.  
 REFERENCE 1 (bases 1 to 1180)  
 AUTHORS Sheridan,J.P., Marsters,S.A., Pitti,R.M., Gurney,A., Skubatch,M.,  
 Baldwin,D., Ramakrishnan,L., Gray,C.L., Baker,K., Wood,W.I.,  
 Goddard,A.D., Godowski,P. and Ashkenazi,A.  
 TITLE Control of TRAIL-induced apoptosis by a family of signaling and  
 decoy receptors  
 JOURNAL Science 277 (5327), 818-821 (1997)  
 MEDLINE 97390509  
 REFERENCE 2 (bases 1 to 1180)  
 AUTHORS Sheridan,J.P., Marsters,S.A., Pitti,R.M., Gurney,A., Baldwin,D.,  
 Ramakrishnan,L., Gray,C.L., Baker,K., Wood,W.I., Goddard,A.D.,  
 Godowski,P. and Ashkenazi,A.  
 TITLE Direct Submission  
 JOURNAL Submitted (06-JUL-1997) Molecular Oncology, Genentech, 1 DNA Way,  
 South San Francisco, CA 94080, USA  
 FEATURES Location/Qualifiers  
 source 1. .1180  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 gene 1. .1180  
 /gene="DcR1"  
 CDS 193. .972  
 /gene="DcR1"  
 /note="tumor necrosis factor receptor family member;  
 inhibits apoptosis induction by TRAIL/Apo2L"  
 /codon\_start=1  
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 TPAAEETMNTSPGTPAPAAEETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPG  
 TPAPAAEETMTTSPGTPASSHYLSCTIVGIIIVLIVLLIVFV"  
 BASE COUNT 338 a 326 c 298 g 218 t  
 ORIGIN

Query Match 100.0%; Score 1180; DB 22; Length 1180;  
 Best Local Similarity 100.0%; Pred. No. 0.00e+00;  
 Matches 1180; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 GCTGTGGGAACCTCTCCACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGA 60  
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 Qy 1 GCTGTGGGAACCTCTCCACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGA 60



Db	61	GTTTGACCAGAGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACTCTGGGGAC	120
Qy	61	GTTTGACCAGAGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACTCTGGGGAC	120
Db	121	AGAGCGCCCCGGCCGCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTC	180
Qy	121	AGAGCGCCCCGGCCGCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTC	180
Db	181	GGGAACCATAACCATGGCCCCGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCG	240
Qy	181	GGGAACCATAACCATGGCCCCGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCG	240
Db	241	GTCCTGCTGCCAGTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAG	300
Qy	241	GTCCTGCTGCCAGTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAG	300
Db	301	CAGACAGTGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGA	360
Qy	301	CAGACAGTGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGA	360
Db	361	TCTCATAGATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACC	420
Qy	361	TCTCATAGATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACC	420
Db	421	AACGCTTCCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAA	480
Qy	421	AACGCTTCCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAA	480
Db	481	CATAAAAGTTTCTGCAACCATGACCAGAGACACAGTGTGTAGTGTAAAGAAGGCACCTTC	540
Qy	481	CATAAAAGTTTCTGCAACCATGACCAGAGACACAGTGTGTAGTGTAAAGAAGGCACCTTC	540
Db	541	CGGAATGAAAACCTCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTC	600
Qy	541	CGGAATGAAAACCTCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTC	600
Db	601	CAAGTCAGTAATTGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAAT	660
Qy	601	CAAGTCAGTAATTGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAAT	660
Db	661	GCCACTGTGGAAACCCAGCTGCTGAAGAGACAATGAACACCAGCCCAGGGGACTCCTGCC	720
Qy	661	GCCACTGTGGAAACCCAGCTGCTGAAGAGACAATGAACACCAGCCCAGGGGACTCCTGCC	720
Db	721	CCAGCTGCTGAAGAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAG	780
Qy	721	CCAGCTGCTGAAGAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAG	780
Db	781	ACAATGACCACCAGCCCAGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGC	840
Qy	781	ACAATGACCACCAGCCCAGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGC	840
Db	841	CCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCAGGGGACTCCTGCC	900
Qy	841	CCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCAGGGGACTCCTGCC	900

[illegible]

RESULT 3: Comparison to SEQ ID NO:2 (Qy)  
 LOCUS AF016267 1388 bp mRNA PRI 16-OCT-1997  
 DEFINITION Homo sapiens TRAIL receptor 3 mRNA, complete cds.  
 ACCESSION AF016267  
 NID g2529564  
 KEYWORDS .  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryotae; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;  
 Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 1388)  
 AUTHORS Schneider,P., Bodmer,J.-L., Thome,M., Holler,N., Hofmann,K. and  
 Tschopp,J.  
 TITLE Characterization of two receptors binding TRAIL  
 JOURNAL FEBS Lett. (1997) In press  
 REFERENCE 2 (bases 1 to 1388)  
 AUTHORS Schneider,P., Bodmer,J.-L., Thome,M., Holler,N., Hofmann,K. and  
 Tschopp,J.  
 TITLE Direct Submission  
 JOURNAL Submitted (28-JUL-1997) Institute of Biochemistry, University of  
 Lausanne, Chemin des Boveresses 155, Epalinges, VD 1066,  
 Switzerland

FEATURES Location/Qualifiers  
 source 1. .1388  
 /organism="Homo sapiens"  
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 CDS 188. .967  
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 /note="DR4 homolog; contains no intracellular domain"  
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 MTRDTVCQCKEGTFRNVNSPEMCRKCSRCPGSEVQVSNCTSWDDIQVEEFGANATVE  
 TPAAEETMNTSPGTPAPAAEETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPG  
 TPAPAAEETMTTSPGTPASSHYLSCTIVGIIVLIVLLIVFV"

BASE COUNT 331 a 415 c 368 g 274 t  
 ORIGIN

Query Match 92.0%; Score 1086; DB 22; Length 1388;  
 Best Local Similarity 99.7%; Pred. No. 0.00e+00;  
 Matches 1094; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

Db 13 CACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGAGTTTGACCAGAGATGC 72  
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 Qy 17 CACGCGCACGAACTCAGCCAACGATTTCTGATAGATTTTGGGAGTTTGACCAGAGATGC 76  
 Db 73 AAGGGGTGAAGGAGCGCTTCCTACCGTTAGG-AACTCTGGGGACAGAGCGCCCCGGCCGC 131  
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 Qy 77 AAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAAGTCTGGGGACAGAGCGCCCCGGCCGC 136  
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Qy	137	CTGATGGCCGAGGCAGGGTGC	196
Db	192	CCCGGATCCCCAAGACCC	251
Qy	197	CCCGGATCCCCAAGACCC	256
Db	252	TAGCTTACTCTGCCACCACTG	311
Qy	257	TAGCTTACTCTGCCACCACTG	316
Db	312	AGCAACAGAGGCACAGCTT	371
Qy	317	AGCAACAGAGGCACAGCTT	376
Db	372	ATACTGGAGCCTGTAACCC	431
Qy	377	ATACTGGAGCCTGTAACCC	436
Db	432	AACCTTCTTGCTTCCCATG	491
Qy	437	AACCTTCTTGCTTCCCATG	496
Db	492	CCATGACCAGAGACACAGT	551
Qy	497	CCATGACCAGAGACACAGT	556
Db	552	CAGAGATGTGCCGGAAGTGT	611
Qy	557	CAGAGATGTGCCGGAAGTGT	616
Db	612	CGTCCTGGGATGATATCCAG	671
Qy	617	CGTCCTGGGATGATATCCAG	676
Db	672	CAGCTGCTGAAGAGACAATG	731
Qy	677	CAGCTGCTGAAGAGACAATG	736
Db	732	CAATGAACACCAGCCCAGGG	791
Qy	737	CAATGAACACCAGCCCAGGG	796
Db	792	CGGGGACTCCTGCCCCAGCT	851
Qy	797	CGGGGACTCCTGCCCCAGCT	856
Db	852	CAGCTGCTGAAGAGACAATG	911
Qy	857	CAGCTGCTGAAGAGACAATG	916
Db	912	CATGCACCATCGTAGGGATC	971
Qy	917	CATGCACCATCGTAGGGATC	976

[illegible]

RESULT 2: Comparison to SEQ ID NO:4 (Qy)  
 LOCUS AF033854 1377 bp mRNA PRI 27-NOV-1997  
 DEFINITION Homo sapiens lymphocyte inhibitor of TRAIL (LIT) mRNA, complete cds.  
 ACCESSION AF033854  
 NID g2645841  
 KEYWORDS .  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryotae; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 1377)  
 AUTHORS Mongkolsapaya, J., Cowper, A., Xu, X., Morris, G., McMichael, A. J., Bell, J. I. and Screaton, G. R.  
 TITLE Lymphocyte inhibitor of TRAIL: A new receptor protecting lymphocytes from the death ligand TRAIL  
 JOURNAL J. Immunol. ~~(1997) In press~~ 160(1): 3-6, Jan. 1, 1998  
 REFERENCE 2 (bases 1 to 1377)  
 AUTHORS Mongkolsapaya, J., Cowper, A., Xu, X., Morris, G., McMichael, A. J., Bell, J. I. and Screaton, G. R.  
 TITLE Direct Submission  
 JOURNAL Submitted (10-NOV-1997) Immunology, Institute of Molecular Medicine, John Radcliffe Hospital, Headington, Oxford OX3 9DS, UK  
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 source Location/Qualifiers  
 1. .1377  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
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 CDS 177. .956  
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 /product="lymphocyte inhibitor of TRAIL"  
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 /translation="MARIPKTLKFVVIVAVLLPVLAYSATTARQEEVPQQTVPAPQQQ  
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 TPAPAAEETMTTSPGTPASSHYLSCTIVGIIVLIVLLIVFV"  
 BASE COUNT 335 a 409 c 365 g 268 t  
 ORIGIN

Query Match 93.0%; Score 1097; DB 22; Length 1377;  
 Best Local Similarity 100.0%; Pred. No. 0.00e+00;  
 Matches 1097; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 CACGCGCACGAACCTCAGCCAACGATTTCTGATAGATTTTGGGAGTTTGACCAGAGATGC 60  
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 Qy 17 CACGCGCACGAACCTCAGCCAACGATTTCTGATAGATTTTGGGAGTTTGACCAGAGATGC 76  
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 Db 61 AAGGGGTGAAGGAGCGCTTCTACCGTTAGGGAACCTCTGGGGACAGAGCGCCCCGGCCGC 120

Qy	77	 AAGGGGTGAAGGAGCGCTTCTACCGTTAGGGAACTCTGGGGACAGAGCGCCCCGGCCGC	136
Db	121	CTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACCATAACCATGG	180
Qy	137	 CTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACCATAACCATGG	196
Db	181	CCCGGATCCCCAAGACCCATAAGTTCGTCTGTCGTCATCGTCGCGGTCCTGCTGCCAGTCC	240
Qy	197	 CCCGGATCCCCAAGACCCATAAGTTCGTCTGTCGTCATCGTCGCGGTCCTGCTGCCAGTCC	256
Db	241	TAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	300
Qy	257	 TAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	316
Db	301	AGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCAGCAGGATCTCATAGATCAGAAC	360
Qy	317	 AGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCAGCAGGATCTCATAGATCAGAAC	376
Db	361	ATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTTGGATTACACCAACGCTTCCAACAATG	420
Qy	377	 ATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTTGGATTACACCAACGCTTCCAACAATG	436
Db	421	AACCTTCTTGCTTCCCATGTACAGTTTGTAATCAGATCAAAAACATAAAAGTTCTTGCA	480
Qy	437	 AACCTTCTTGCTTCCCATGTACAGTTTGTAATCAGATCAAAAACATAAAAGTTCTTGCA	496
Db	481	CCATGACCAGAGACACAGTGTGTCTAGTGTAAAGAAGGCACCTTCCGGAATGAAAACTCCC	540
Qy	497	 CCATGACCAGAGACACAGTGTGTCTAGTGTAAAGAAGGCACCTTCCGGAATGAAAACTCCC	556
Db	541	CAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAAGTCCAAGTCAGTAATTGTA	600
Qy	557	 CAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAAGTCCAAGTCAGTAATTGTA	616
Db	601	CGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAAACCC	660
Qy	617	 CGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAAACCC	676
Db	661	CAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGA	720
Qy	677	 CAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGA	736
Db	721	CAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCC	780
Qy	737	 CAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCC	796
Db	781	CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCC	840
Qy	797	 CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCC	856
Db	841	CAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTACCTCT	900
Qy	857	 CAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTACCTCT	916

Db 901 CATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGAAAGA 960  
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 Qy 917 CATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGAAAGA 976  
  
 Db 961 CTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTTCAGGTAGGCGCTGGCTGAGGG 1020  
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 Qy 977 CTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTTCAGGTAGGCGCTGGCTGAGGG 1036  
  
 Db 1021 CGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCTGTGTTCCACAGACAGAAAC 1080  
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 Qy 1037 CGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCTGTGTTCCACAGACAGAAAC 1096  
  
 Db 1081 GCCTGCCCCCTGCCCCAA 1097  
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 Qy 1097 GCCTGCCCCCTGCCCCAA 1113



RESULT 2: Comparison to SEQ ID NO:2 (Qy)  
 LOCUS AF033854 1377 bp mRNA PRI 27-NOV-1997  
 DEFINITION Homo sapiens lymphocyte inhibitor of TRAIL (LIT) mRNA, complete cds.  
 ACCESSION AF033854  
 NID g2645841  
 KEYWORDS .  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryotae; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 1377)  
 AUTHORS Mongkolsapaya,J., Cowper,A., Xu,X., Morris,G., McMichael,A.J., Bell,J.I. and Screaton,G.R.  
 TITLE Lymphocyte inhibitor of TRAIL: A new receptor protecting lymphocytes from the death ligand TRAIL  
 JOURNAL J. Immunol. (1997) In press  
 REFERENCE 2 (bases 1 to 1377)  
 AUTHORS Mongkolsapaya,J., Cowper,A., Xu,X., Morris,G., McMichael,A.J., Bell,J.I. and Screaton,G.R.  
 TITLE Direct Submission  
 JOURNAL Submitted (10-NOV-1997) Immunology, Institute of Molecular Medicine, John Radcliffe Hospital, Headington, Oxford OX3 9DS, UK  
 FEATURES  
 source Location/Qualifiers  
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 CDS 177. .956  
 /gene="LIT"  
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Query Match 93.0%; Score 1097; DB 22; Length 1377;  
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 Db 61 AAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACTCTGGGGACAGAGCGCCCCGGCCGC 120

Qy	77	AAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACCTCTGGGGACAGAGCGCCCCGGCCGC	136
Db	121	CTGATGGCCGAGGCAGGGTGCACCCAGGACCCAGGACGGCGTCGGGAACCATACCATGG	180
Qy	137	CTGATGGCCGAGGCAGGGTGCACCCAGGACCCAGGACGGCGTCGGGAACCATACCATGG	196
Db	181	CCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCTGCTGCCAGTCC	240
Qy	197	CCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCTGCTGCCAGTCC	256
Db	241	TAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	300
Qy	257	TAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCCCCAC	316
Db	301	AGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCAGAAC	360
Qy	317	AGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCAGAAC	376
Db	361	ATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAACAATG	420
Qy	377	ATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAACAATG	436
Db	421	AACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCTTGCA	480
Qy	437	AACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCTTGCA	496
Db	481	CCATGACCAGAGACACAGTGTGTCAAGTGTAAAGAAGGCACCTTCCGGAATGAAAACCTCCC	540
Qy	497	CCATGACCAGAGACACAGTGTGTCAAGTGTAAAGAAGGCACCTTCCGGAATGAAAACCTCCC	556
Db	541	CAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAATTGTA	600
Qy	557	CAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAATTGTA	616
Db	601	CGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAAACCC	660
Qy	617	CGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAAACCC	676
Db	661	CAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGA	720
Qy	677	CAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGA	736
Db	721	CAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCC	780
Qy	737	CAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCC	796
Db	781	CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCC	840
Qy	797	CGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCC	856
Db	841	CAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTACCTCT	900
Qy	857	CAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTACCTCT	916

Db	901	CATGCACCATCGTAGGGATCATAGTTC	TAATTGTGCTTCTGATTGTGTTTGT	TGAAAGA	960
Qy	917	CATGCACCATCGTAGGGATCATAGTTC	TAATTGTGCTTCTGATTGTGTTTGT	TGAAAGA	976
Db	961	CTTCACTGTGGAAGAAATTCCTTCCT	TACCTGAAAGGTTCCAGGTAGGCGCT	GGCTGAGGG	1020
Qy	977	CTTCACTGTGGAAGAAATTCCTTCCT	TACCTGAAAGGTTCCAGGTAGGCGCT	GGCTGAGGG	1036
Db	1021	CGGGGGGCGCTGGACACTCTCTGCCCT	GCCTCCCTCTGCTGTGTTCCACAGAC	AGAAAC	1080
Qy	1037	CGGGGGGCGCTGGACACTCTCTGCCCT	GCCTCCCTCTGCTGTGTTCCACAGAC	AGAAAC	1096
Db	1081	GCCTGCCCCTGCCCCAA	1097		
Qy	1097	GCCTGCCCCTGCCCCAA	1113		



Qy 117 GGACAGAGCGCCCCGCGCCGCTGATGGCCGAGGCAGGGTGCACCCAGGACCCAGGACGG 176

Db 134 CGTCGGAACCATACCATGGCCCGGATCCCCAAGACCCCTAAAGTTCGTCGTCGTCATCGT 193  
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Db 194 CGCGGTCCTGCTGCCAGTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCC 253  
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Qy 237 CGCGGTCCTGCTGCCAGTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCC 296

Db 254 CCAGCAGACAGTGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGC 313  
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Qy 297 CCAGCAGACAGTGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGC 356

Db 314 AGGATCTCATAGATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTA 373  
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Qy 357 AGGATCTCATAGATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTA 416

Db 374 CACCAACGCTTCCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCA 433  
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Qy 417 CACCAACGCTTCCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCA 476

Db 434 AAAACATAAAAGTTCCTGCACCATGACCAGAGACACAGTGTGTCAGTGTAAAGAAGGCAC 493  
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Qy 477 AAAACATAAAAGTTCCTGCACCATGACCAGAGACACAGTGTGTCAGTGTAAAGAAGGCAC 536

Db 494 CTTCCGGAATGAAAACCTCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGA 553  
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Qy 537 CTTCCGGAATGAAAACCTCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGA 596

Db 554 AGTCCAAGTCAGTAATTGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTGGTGC 613  
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Qy 597 AGTCCAAGTCAGTAATTGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTGGTGC 656

Db 614 CAATGCCACTGTGGAAACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCC 673  
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Qy 657 CAATGCCACTGTGGAAACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCC 716

Db 674 TGCCCCAGCTGCTGAAGAGACAATGAACACCAGCCAGGGACTCCTGCCCCAGCTGCTGA 733  
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Qy 717 TGCCCCAGCTGCTGAAGAGACAATGAACACCAGCCAGGGACTCCTGCCCCAGCTGCTGA 776

Db 734 AGAGACAATGACCACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCAC 793  
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Qy 777 AGAGACAATGACCACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCAC 836

Db 794 CAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCC 853  
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Qy 837 CAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCC 896

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Qy 897 TGCCTCTTCTCATTACCTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCT 956

Db 914 GATTGTGTTTGTGTTGAAAGACTTCACTGTGGAAGAAATTCTTCTTACCTGAAAGGTTTC 973

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Qy 957 GATTGTGTTTGTGTTGAAAGACTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTTC 1016  
Db 974 AGGTAGGCGCTGGCTGAGGGCGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCT 1033  
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Qy 1017 AGGTAGGCGCTGGCTGAGGGCGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCT 1076  
Db 1034 GTGTTCCACAGACAGAAACGCCTGCCCCTGCCCCAA 1070  
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Qy 1077 GTGTTCCACAGACAGAAACGCCTGCCCCTGCCCCAA 1113

RESULT 4: Comparison to SEQ ID NO:2 (Qy)  
 LOCUS AF014794 1365 bp mRNA PRI 13-MAR-1998  
 DEFINITION Homo sapiens TNF related TRAIL receptor (TRAIL-R3) mRNA, complete cds.  
 ACCESSION AF014794  
 NID g2957263  
 KEYWORDS .  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;  
 Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 1365)  
 AUTHORS Degli-Esposti, M.A., Smolak, P.J., Walczak, H., Waugh, J., Huang, C.P., DuBose, R.F., Goodwin, R.G. and Smith, C.A.  
 TITLE Cloning and characterization of TRAIL-R3, a novel member of the emerging TRAIL receptor family  
 JOURNAL J. Exp. Med. 186 (7), 1165-1170 (1997)  
 MEDLINE 97461602  
 REFERENCE 2 (bases 1 to 1365)  
 AUTHORS Degli-Esposti, M.A.  
 TITLE Direct Submission  
 JOURNAL Submitted (15-JUL-1997) Biochemistry, Immunex, 51 University Street, Seattle, WA 98101, USA  
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 BASE COUNT 332 a 403 c 363 g 267 t  
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Query Match 89.6%; Score 1057; DB 22; Length 1365;  
 Best Local Similarity 100.0%; Pred. No. 0.00e+00;  
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 Db 74 GGACAGAGCGCCCCGGCCGCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGG 133  
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Qy 177 CGTCGGGAACCATAACCATGGCCCCGATCCCCAAGACCCTAAAGTTCGTTCGTTCATCGT 236

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Qy 237 CGCGGTCCTGCTGCCAGTCCTAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCC 296

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Qy 357 AGGATCTCATAGATCAGAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTA 416

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Qy 417 CACCAACGCTTCCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCA 476

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Qy 477 AAAACATAAAAGTTCTGCACCATGACCAGAGACACAGTGTGTTCAGTGTAAAGAAGGCAC 536

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Qy 537 CTTCCGGAATGAAAACCTCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGA 596

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Db 734 AGAGACAATGACCACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCAC 793  
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Qy 777 AGAGACAATGACCACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCAC 836

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Qy 897 TGCCTCTTCTCATTACCTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCT 956

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Qy  1017 AGGTAGGCGCTGGCTGAGGGCGGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCT 1076

Db  1034 GTGTTCCACAGACAGAAACGCCTGCCCCTGCCCCAA 1070
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Qy  1077 GTGTTCCACAGACAGAAACGCCTGCCCCTGCCCCAA 1113

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RESULT 5: Comparison to SEQ ID NO:2 (Qy)  
 LOCUS AF020502 900 bp mRNA PRI 28-SEP-1997  
 DEFINITION Homo sapiens cytotoxic TRAIL receptor-3 (TRAIL-R3) mRNA, complete cds.  
 ACCESSION AF020502  
 NID g2443819  
 KEYWORDS .  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryotae; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;  
 Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 900)  
 AUTHORS MacFarlane,M., Ahmad,M., Srinivasula,S.M., Fernandes-Alnemri,T., Cohen,G.M. and Alnemri,E.S.  
 TITLE Identification and Molecular Cloning of Two Novel Receptors for the Cytotoxic ligand TRAIL  
 JOURNAL J. Biol. Chem. (1997) ~~In press~~ Oct. 10, 272(41):25417-20  
 REFERENCE 2 (bases 1 to 900)  
 AUTHORS MacFarlane,M., Ahmad,M., Srinivasula,S.M., Fernandes-Alnemri,T., Cohen,G.M. and Alnemri,E.S.  
 TITLE Direct Submission  
 JOURNAL Submitted (21-AUG-1997) Department of Microbiology and Immunology, Kimmel Cancer Institute, 233 S. 10th Street, Philadelphia, PA 19107, USA  
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 CDS 1..900  
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 Best Local Similarity 99.9%; Pred. No. 2.87e-262;  
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Qy	133	CCGCCTGATGGCCGAGGCAGGGTGC	GACCCAGGACCCAAGACGGCGTCG	GGAACCATAACC	192
Db	121	ATGGCCCGGATCCCCAAGACCC	TAAAGTTCGTCGTCGTCATCGTC	GCGGTCCTGCTGCCA	180
Qy	193	ATGGCCCGGATCCCCAAGACCC	TAAAGTTCGTCGTCGTCATCGTC	GCGGTCCTGCTGCCA	252
Db	181	GTCCTAGCTTACTCTGCCACCACT	GCCCCGGCAGGAGGAAGTTCCCC	CAGCAGACAGTGGCC	240
Qy	253	GTCCTAGCTTACTCTGCCACCACT	GCCCCGGCAGGAGGAAGTTCCCC	CAGCAGACAGTGGCC	312
Db	241	CCACAGCAACAGAGGCACAGCTT	CAAGGGGGAGGAGTGTCCAGCAG	GATCTCATAGATCA	300
Qy	313	CCACAGCAACAGAGGCACAGCTT	CAAGGGGGAGGAGTGTCCAGCAG	GATCTCATAGATCA	372
Db	301	GAACATACTGGAGCCTGTAACCC	GTGCACAGAGGGTGTGGATTACAC	CAACGCTTCCAAC	360
Qy	373	GAACATACTGGAGCCTGTAACCC	GTGCACAGAGGGTGTGGATTACAC	CAACGCTTCCAAC	432
Db	361	AATGAACCTTCTTGCTTCCCATG	TACAGTTTGTAATCAGATCAAAA	ACATAAAAGTTCC	420
Qy	433	AATGAACCTTCTTGCTTCCCATG	TACAGTTTGTAATCAGATCAAAA	ACATAAAAGTTCC	492
Db	421	TGCACCATGACCAGAGACACAGT	GTGTGTCAGTGTAAGAAGGCAC	CTTCCGGAATGAAAAC	480
Qy	493	TGCACCATGACCAGAGACACAGT	GTGTGTCAGTGTAAGAAGGCAC	CTTCCGGAATGAAAAC	552
Db	481	TCCCCAGAGATGTGCCGGAAGT	GTAGCAGGTGCCCTAGTGGGGA	AGTCCAAGTCAGTAAT	540
Qy	553	TCCCCAGAGATGTGCCGGAAGT	GTAGCAGGTGCCCTAGTGGGGA	AGTCCAAGTCAGTAAT	612
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Qy	613	TGTACGTCCTGGGATGATATCC	AGTGTGTTGAAGAATTTGGTG	CCAATGCCACTGTGGAA	672
Db	601	ACCCCAGCTGCTGAAGAGACAAT	GAACACCAGCCCGGGGACTCCT	GCCCCAGCTGCTGAA	660
Qy	673	ACCCCAGCTGCTGAAGAGACAAT	GAACACCAGCCCGGGGACTCCT	GCCCCAGCTGCTGAA	732
Db	661	GAGACAATGAACACCAGCCCAG	GGGACTCCTGCCCCAGCTGCT	GAAGAGACAATGACCACC	720
Qy	733	GAGACAATGAACACCAGCCCAG	GGGACTCCTGCCCCAGCTGCT	GAAGAGACAATGACCACC	792
Db	721	AGCCCGGGGACTCCTGCCCC	AGCTGCTGAAGAGACAATGACC	ACCAGCCCGGGGACTCCT	780
Qy	793	AGCCCGGGGACTCCTGCCCC	AGCTGCTGAAGAGACAATGACC	ACCAGCCCGGGGACTCCT	852
Db	781	GCCCCAGCTGCTGAAGAGACAAT	GACCACCAGCCCGGGGACTCCT	GCCTCTTCTCATTAC	840
Qy	853	GCCCCAGCTGCTGAAGAGACAAT	GACCACCAGCCCGGGGACTCCT	GCCTCTTCTCATTAC	912
Db	841	CTCTCATGCACCATCGTAGGG	ATCATAGTTCTAATTGTGCTT	CTGATTGTGTTTGTGTTGA	900
Qy	913	CTCTCATGCACCATCGTAGGG	ATCATAGTTCTAATTGTGCTT	CTGATTGTGTTTGTGTTGA	972

RESULT 5: Comparison to SEQ ID NO:4 (Qy)  
 LOCUS AF020502 900 bp mRNA PRI 28-SEP-1997  
 DEFINITION Homo sapiens cytotoxic TRAIL receptor-3 (TRAIL-R3) mRNA, complete cds.  
 ACCESSION AF020502  
 NID g2443819  
 KEYWORDS .  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryotae; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;  
 Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 900)  
 AUTHORS MacFarlane,M., Ahmad,M., Srinivasula,S.M., Fernandes-Alnemri,T., Cohen,G.M. and Alnemri,E.S.  
 TITLE Identification and Molecular Cloning of Two Novel Receptors for the Cytotoxic ligand TRAIL  
 JOURNAL J. Biol. Chem. (1997) In press  
 REFERENCE 2 (bases 1 to 900)  
 AUTHORS MacFarlane,M., Ahmad,M., Srinivasula,S.M., Fernandes-Alnemri,T., Cohen,G.M. and Alnemri,E.S.  
 TITLE Direct Submission  
 JOURNAL Submitted (21-AUG-1997) Department of Microbiology and Immunology, Kimmel Cancer Institute, 233 S. 10th Street, Philadelphia, PA 19107, USA

FEATURES Location/Qualifiers  
 source 1. .900  
 /organism="Homo sapiens"  
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 /note="Jurkat"  
 gene 1. .900  
 /gene="TRAIL-R3"  
 CDS 1. .900  
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 SPEMCRKCSRCPGSEVQVSNCTSWDDIQVVEFGANATVETPAAEETMNTSPGTPAPA  
 AEETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPGTPA  
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BASE COUNT 228 a 262 c 240 g 170 t

#### ORIGIN

Query Match 76.1%; Score 898; DB 22; Length 900;  
 Best Local Similarity 99.9%; Pred. No. 2.87e-262;  
 Matches 899; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 1 ATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACCTCTGGGGACAGAGCGCCCCGG 60  
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 Qy 73 ATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACCTCTGGGGACAGAGCGCCCCGG 132

Db	61	CCGCCTGATGGCCGAGGCAGGGTGC	120
Qy	133	CCGCCTGATGGCCGAGGCAGGGTGC	192
Db	121	ATGGCCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCTCTGCTGCCA	180
Qy	193	ATGGCCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCTCTGCTGCCA	252
Db	181	GTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCC	240
Qy	253	GTCCTAGCTTACTCTGCCACCACTGCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCC	312
Db	241	CCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCA	300
Qy	313	CCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCA	372
Db	301	GAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAAC	360
Qy	373	GAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAAC	432
Db	361	AATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCC	420
Qy	433	AATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCC	492
Db	421	TGCACCATGACCAGAGACACAGTGTGTCTAGTGTAAAGAAGGCACCTTCCGGAATGAAAAC	480
Qy	493	TGCACCATGACCAGAGACACAGTGTGTCTAGTGTAAAGAAGGCACCTTCCGGAATGAAAAC	552
Db	481	TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT	540
Qy	553	TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT	612
Db	541	TGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAA	600
Qy	613	TGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAA	672
Db	601	ACCCCAGCTGCTGAAGAGACAATGAACACCAGCCCCGGGGACTCCTGCCCCAGCTGCTGAA	660
Qy	673	ACCCCAGCTGCTGAAGAGACAATGAACACCAGCCCCGGGGACTCCTGCCCCAGCTGCTGAA	732
Db	661	GAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACC	720
Qy	733	GAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACC	792
Db	721	AGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCT	780
Qy	793	AGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCT	852
Db	781	GCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCCGGGGACTCCTGCCTCTTCTCATTAC	840
Qy	853	GCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCCGGGGACTCCTGCCTCTTCTCATTAC	912
Db	841	CTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGA	900
Qy	913	CTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGA	972

RESULT 1: Comparison to SEQ ID NO:1 (Qy)  
 ID O14798 PRELIMINARY; PRT; 299 AA.  
 AC O14798;  
 DT 01-JAN-1998 (TREMBLREL. 05, CREATED)  
 DT 01-JAN-1998 (TREMBLREL. 05, LAST SEQUENCE UPDATE)  
 DT 01-JAN-1998 (TREMBLREL. 05, LAST ANNOTATION UPDATE)  
 DE CYTOTOXIC TRAIL RECEPTOR-3.  
 GN TRAIL-R3.  
 OS HOMO SAPIENS (HUMAN).  
 OC EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;  
 OC EUTHERIA; PRIMATES.  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA MACFARLANE M., AHMAD M., SRINIVASULA S.M., FERNANDES-ALNEMRI T.,  
 RA COHEN G.M., ALNEMRI E.S.;  
 RL J. BIOL. CHEM. 0:0-0(1997).  
 DR EMBL; AF020502; G2443820; -.  
 SQ SEQUENCE 299 AA; 31759 MW; 59B93A14 CRC32;

Query Match 100.0%; Score 1783; DB 2; Length 299;  
 Best Local Similarity 100.0%; Pred. No. 5.99e-239;  
 Matches 259; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db	41	MARIPKTLKFVVVIVAVLLPVLAYSATTARQEEVPQQTVA	PQQQRHSFKGEECPAGSHRS	100
Qy	1	MARIPKTLKFVVVIVAVLLPVLAYSATTARQEEVPQQTVA	PQQQRHSFKGEECPAGSHRS	60
Db	101	EHTGACNPCTEGVDYTNASNNEPSCFPCTVCKSDQKHKS	SCTMTRDTCQCKEGTFRNEN	160
Qy	61	EHTGACNPCTEGVDYTNASNNEPSCFPCTVCKSDQKHKS	SCTMTRDTCQCKEGTFRNEN	120
Db	161	SPEMCRKCSRCPSGEVQVSNCTSWDDIQVVEFGANATVET	PAAETMNTSPGTPAPAAE	220
Qy	121	SPEMCRKCSRCPSGEVQVSNCTSWDDIQVVEFGANATVET	PAAETMNTSPGTPAPAAE	180
Db	221	ETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPG	TAPAAEETMTTSPGTPASSHY	280
Qy	181	ETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPG	TAPAAEETMTTSPGTPASSHY	240
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Qy	241	LSCTIVGIIVLIVLLIVFV		259

RESULT 6: Comparison to SEQ ID NO:2 (Qy)  
 LOCUS AF012629 780 bp mRNA PRI 21-AUG-1997  
 DEFINITION Homo sapiens antagonist decoy receptor for TRAIL/Apo-2L (TRID)  
 mRNA, complete cds.  
 ACCESSION AF012629  
 NID g2338430  
 KEYWORDS .  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;  
 Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae;  
 Homo.  
 REFERENCE 1 (bases 1 to 780)  
 AUTHORS Pan,G., Ni,J., Wei,Y.F., Yu,G., Gentz,R. and Dixit,V.M.  
 TITLE An antagonist decoy receptor and a death domain-containing receptor  
 for TRAIL  
 JOURNAL Science 277 (5327), 815-818 *Aug. 8* (1997)  
 MEDLINE 97390508  
 REFERENCE 2 (bases 1 to 780)  
 AUTHORS Pan,G., Ni,J., Wei,Y., Yu,G., Gentz,R. and Dixit,V.M.  
 TITLE Direct Submission  
 JOURNAL Submitted (06-JUL-1997) Pathology, University of Michigan, 1301  
 Catherine Road, Room 7518, Ann Arbor, MI 48109, USA  
 FEATURES Location/Qualifiers  
 source 1. .780  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 gene 1. .780  
 /gene="TRID"  
 CDS 1. .780  
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 /codon\_start=1  
 /product="antagonist decoy receptor for TRAIL/Apo-2L"  
 /db\_xref="PID:g2338431"  
 /translation="MARIPKTLKFVVVIVAVLLPVLAYSATTARQEEVPQQTVAPQQQ  
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 BASE COUNT 202 a 226 c 196 g 156 t  
 ORIGIN

Query Match 66.1%; Score 780; DB 22; Length 780;  
 Best Local Similarity 100.0%; Pred. No. 2.44e-225;  
 Matches 780; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 Db 61 GTCCTAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCC 120  
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 Qy 253 GTCCTAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCC 312  
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 Db 121 CCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCAGCAGGATCTCATAGATCA 180

Qy	313	CCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCCAGCAGGATCTCATAGATCA	372
Db	181	GAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGC'TTCCAAC	240
Qy	373	GAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGC'TTCCAAC	432
Db	241	AATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAAGTTCC	300
Qy	433	AATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAAGTTCC	492
Db	301	TGCACCATGACCAGAGACACAGTGTGTCAAGTGTAAAGAAGGCACCTTCCGGAATGAAAAC	360
Qy	493	TGCACCATGACCAGAGACACAGTGTGTCAAGTGTAAAGAAGGCACCTTCCGGAATGAAAAC	552
Db	361	TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT	420
Qy	553	TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT	612
Db	421	TGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAA	480
Qy	613	TGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAA	672
Db	481	ACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAA	540
Qy	673	ACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAA	732
Db	541	GAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACC	600
Qy	733	GAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACC	792
Db	601	AGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCT	660
Qy	793	AGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCT	852
Db	661	GCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTAC	720
Qy	853	GCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTAC	912
Db	721	CTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGA	780
Qy	913	CTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGA	972



RESULT 6: Comparison to SEQ ID NO:4 (Qy)  
 LOCUS AF012629 780 bp mRNA PRI 21-AUG-1997  
 DEFINITION Homo sapiens antagonist decoy receptor for TRAIL/Apo-2L (TRID)  
 mRNA, complete cds.  
 ACCESSION AF012629  
 NID g2338430  
 KEYWORDS .  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;  
 Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae;  
 Homo.  
 REFERENCE 1 (bases 1 to 780)  
 AUTHORS Pan,G., Ni,J., Wei,Y.F., Yu,G., Gentz,R. and Dixit,V.M.  
 TITLE An antagonist decoy receptor and a death domain-containing receptor  
 for TRAIL  
 JOURNAL Science 277 (5327), 815-818 (1997)  
 MEDLINE 97390508  
 REFERENCE 2 (bases 1 to 780)  
 AUTHORS Pan,G., Ni,J., Wei,Y., Yu,G., Gentz,R. and Dixit,V.M.  
 TITLE Direct Submission  
 JOURNAL Submitted (06-JUL-1997) Pathology, University of Michigan, 1301  
 Catherine Road, Room 7518, Ann Arbor, MI 48109, USA  
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 BASE COUNT 202 a 226 c 196 g 156 t  
 ORIGIN

Query Match 66.1%; Score 780; DB 22; Length 780;  
 Best Local Similarity 100.0%; Pred. No. 2.44e-225;  
 Matches 780; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 ATGGCCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCTCTGCTGCCA 60  
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 Qy 193 ATGGCCCGGATCCCCAAGACCCTAAAGTTCGTCGTCGTCATCGTCGCGGTCTCTGCTGCCA 252  
 Db 61 GTCCTAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCC 120  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Qy 253 GTCCTAGCTTACTCTGCCACCACTGCCCCGGCAGGAGGAAGTTCCCCAGCAGACAGTGGCC 312  
 Db 121 CCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCAGCAGGATCTCATAGATCA 180

Qy	313		CCACAGCAACAGAGGCACAGCTTCAAGGGGGAGGAGTGTCAGCAGGATCTCATAGATCA	372
Db	181		GAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAAC	240
Qy	373		GAACATACTGGAGCCTGTAACCCGTGCACAGAGGGTGTGGATTACACCAACGCTTCCAAC	432
Db	241		AATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCC	300
Qy	433		AATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCC	492
Db	301		TGCACCATGACCAGAGACACAGTGTGTCTAGTGTAAAGAAGGCACCTTCCGGAATGAAAAC	360
Qy	493		TGCACCATGACCAGAGACACAGTGTGTCTAGTGTAAAGAAGGCACCTTCCGGAATGAAAAC	552
Db	361		TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT	420
Qy	553		TCCCCAGAGATGTGCCGGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAAT	612
Db	421		TGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAA	480
Qy	613		TGTACGTCCTGGGATGATATCCAGTGTGTTGAAGAATTTGGTGCCAATGCCACTGTGGAA	672
Db	481		ACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAA	540
Qy	673		ACCCAGCTGCTGAAGAGACAATGAACACCAGCCCGGGGACTCCTGCCCCAGCTGCTGAA	732
Db	541		GAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACC	600
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Db	601		AGCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCT	660
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Db	661		GCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTAC	720
Qy	853		GCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCGGGGACTCCTGCCTCTTCTCATTAC	912
Db	721		CTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGA	780
Qy	913		CTCTCATGCACCATCGTAGGGATCATAGTTCTAATTGTGCTTCTGATTGTGTTTGTGTTGA	972